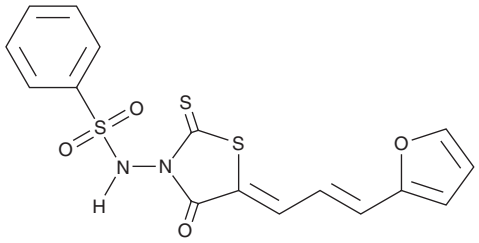
PRODUCT INFORMATION

(5Z,2E)-CU-3

Item No. 37770

CAS Registry No.:	1815598-71-0
Formal Name:	N-[(5Z)-5-[(2E)-3-(2-furanyl)-2-propen-1-ylidene]-4-oxo-2-thioxo-3-thiazolidinyl]-benzenesulfonamide
MF:	$C_{16}H_{12}N_2O_4S_3$
FW:	392.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 419 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(5Z,2E)-CU-3 is supplied as a solid. A stock solution may be made by dissolving the (5Z,2E)-CU-3 in the solvent of choice, which should be purged with an inert gas. (5Z,2E)-CU-3 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of (5Z,2E)-CU-3 in these solvents is approximately 5 and 2 mg/ml, respectively.

Description

(5Z,2E)-CU-3 is an inhibitor of diacylglycerol kinase α (DGK-α; IC_{50} = 0.6 µM for the porcine enzyme).[1] It is selective for DGK-α over other type I DGKs, as well as type II, type III, type IV, and type V DGKs (IC_{50}s = 7-36 µM). (5Z,2E)-CU-3 (5 µM) induces apoptosis in HeLa cervical and HepG2 liver cancer cells and enhances increases in *IL2* mRNA expression in Jurkat T cells induced with concanavalin A (Item No. 14951).

Reference

1. Liu, K., Kunii, N., Sakuma, M., *et al.* A novel diacylglycerol kinase α-selective inhibitor, CU-3, induces cancer cell apoptosis and enhances immune response. *J. Lipid Res.* **57(3)**, 368-379 (2016).

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